

# STANDARD INSPECTION REPORT OF A GAS DISTRIBUTION OPERATOR

## COMPREHENSIVE FIELD AUDIT

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If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

<b>Operator: AMEREN ILLINOIS COMPANY</b>	Operator ID#: 32513
<b>Inspection Date(s): 10/16/2012, 10/17/2012, 10/18/2012, 10/19/2012</b>	Man Days: 4
<b>Inspection Unit: Springfield</b>	
<b>Location of Audit: Springfield</b>	
<b>Exit Meeting Contact: Mark Mancewicz</b>	
<b>Inspection Type: Standard Inspection - Field Audit</b>	
<b>Pipeline Safety Representative(s): Charles Gribbins</b>	
<b>Company Representative to Receive Report: Michael Fuller</b>	
<b>Company Representative's Email Address: mfuller2@ameren.com</b>	

<b>Headquarters Address Information:</b>	300 Liberty Peoria, IL 61602 Emergency Phone#: Fax#:	
<b>Official or Mayor's Name:</b>	Ron Pate Phone#: (217) 424-6518 Email:	
<b>Inspection Contact(s)</b>	<b>Title</b>	<b>Phone No.</b>
Dallas Jett	Superintendent Quality Assurance	
Robert Roth	Senior Quality Assurance Consultant	
Mark Mancewicz	Superintendent Gas Operations	
Mike Fuller	Associate Engineer	

CRITERIA FOR AREA SELECTED	Status
Select from the criteria listed below when choosing a location to audit.	
<u><b>General Comment:</b></u> <i>See information below for criteria related to Comprehensive Field Audit.</i>	
Higher population density	<b>No</b>
<u><b>General Comment:</b></u> <i>Population density was not a factor when the three different areas were picked.</i>	

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Age of system	Yes
<b><u>General Comment:</u></b> Age of the system was a factor why staff selected coupled steel areas to conduct the inspection	
Type of piping	Yes
<b><u>General Comment:</u></b> Type of piping was coupled steel.	
Operating characteristics	Yes
<b><u>General Comment:</u></b> Medium pressure area 20 to 30 pounds.	
Performance history of system	Yes
Manageable sized area should be chosen	No
<b><u>General Comment:</u></b> Staff chose three small areas of the coupled steel systems.	
<b>MAPS OF FACILITIES INSPECTED</b>	<b>Status</b>
192.605(b)(3) Were system maps provided as part of this audit?	Yes
<b><u>General Comment:</u></b> The operator provided maps for each of the areas inspected.	
192.603(b) Were system mapping used during this audit up to date?	Satisfactory
<b><u>General Comment:</u></b> The maps were used for a guide they had enough detail and also included address for the structures inspected.	
<b>CUSTOMER METER &amp; REGULATOR</b>	<b>Status</b>
<b><u>Category Comment:</u></b> Customer meters and regulators were inspected at the following locations: Grand Valley Trailer Park Lot #61 Lot #60 meter locked off Lot #59 Lot #58 Lot #57 atmospheric corrosion on service head adapter Lot #56 meter locked off Lot #55 meter locked off Lot #54 meter locked off tracer wire missing Lot #53 Riser bent Lot #52 needs some painting surface rust Lot #51 Lot #50 Lot #18 missing tracer wire Lot #26 needs painting Lot #25 meter locked off	

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Lot #26 meter locked off  
 Lot #25 meter locked off  
 Lot #24 meter locked off  
 Lot #23 meter locked off  
 Lot #22 Meter locked off  
 Lot #21 Meter locked off  
 Lot #20 needs painted  
 Lot #19 some corrosion problems  
 Lot #18  
 Lot #17  
 Lot #16 needs some paint  
 Lot #15 wire damaged  
 Lot # 14 bad wire  
 Lot #13

See cathodic protection section for more locations where customer meters were inspected.

192.357(a)	Is the customer meter and regulator installed to minimize anticipated stresses upon connecting piping?	<b>Satisfactory</b>
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**General Comment:**

Staff inspected the above list meter sets and it did not appear that there were any issues with stresses on the connecting piping.

192.353(a)	Is the customer meter and regulator installed in a readily accessible location and protected from corrosion and other damage, including if installed outside a building, vehicular damage that may be anticipated?	<b>Satisfactory</b>
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**General Comment:**

Staff inspected meter locations listed in this checklist were found to be in accessible locations and were protected from vehicular damage by placing them close to the resident.

192.355(b)(1)	Is the customer regulator vent rain and insect resistant?	<b>Satisfactory</b>
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**General Comment:**

The vent screens were inspected on the customer meters listed in the checklist and all were found to rain and insect resistant.

192.355(b)(2)	Is the customer regulator vent located where gas from the vent escapes freely into the atmosphere and away from building openings?	<b>Satisfactory</b>
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**General Comment:**

All meter set locations inspected were located where gas could vent freely into the atmosphere and away from building openings.

192.355(b)(3)	Is the vent protected from damage caused by submergence in areas of flooding?	<b>Satisfactory</b>
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**General Comment:**

The operators did not have any meters that were located in any areas prone to flooding.

192.357(d)	Is a customer regulator that might release gas vented to the outside atmosphere?	<b>Satisfactory</b>
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**General Comment:**

Of the entire meter sets inspected there were no inside meters found.

192.359(a)	Is the meter operating pressure within the allowable limits of the meter case rating?	<b>Satisfactory</b>
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**General Comment:**

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<i>Staff checked each meter for case rating the pressure found range form 5psi to 30 psi.</i>		
192.365(a)	Is the service line valve upstream of the regulator or meter?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>At all locations the service line valve was found upstream of the meter and regulator.</i>		
192.365(c)	Is the service line located in a curb box or stand pipe that allows for ready operation?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>During the inspection of customer meters staff did not encounter any valves in curb boxes or in stand pipes.</i>		
<b>LEAK SURVEY</b>		<b>Status</b>
<b><u>Category Comment:</u></b> <i>Leak surveys were performed in each of the following areas:</i>		
192.723	Was a leak survey conducted using operator leak detection survey equipment and system maps?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>The operator used a Southern Cross Flame Ionization Leak Detection Instrument to conduct the leak survey. The operator conducted a test of the instrument prior to stating the leak survey. The operator used bump gas which is a preset amount of gas that the user knows to prove the instrument is working properly.</i>		
192.603(b)	Was the operator's equipment calibrated as required?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the calibration date but did not make a note of it.</i>		
<b>CATHODIC PROTECTION</b>		<b>Status</b>
<b><u>Category Comment:</u></b> <i>Cathodic protection readings were taken in each of the following locations:</i> <i>Lake Winds Subdivision;</i> <i>#327 Lynwood -1.28 volts wire</i> <i>#321 Lynwood -1.30 volts wire</i> <i>#315 Lynwood -1.29 volts wire</i> <i>#311 Lynwood -1.29 volts steel</i> <i>#29 Lake Wind -1.27 volts wire</i> <i>#25 Lake Wind -1.25 volts wire</i> <i>#30 Lake Wind -1.28 volts wire</i> <i>#22 Lake Wind -1.29 volts wire</i> <i>#20 Lake Wind not connected to main</i> <i>#18 Lake Wind -1.28 volts extrub</i> <i>#17 Lake Wind -1.27 volts wire</i> <i>#13 Lake Wind -1.28 volts wire</i> <i>#9 Lake Wind -1.27 volts wire</i> <i>#15 Lynwood -.18 volt not connected to main</i> <i>#320 Lynwood -1.28 volts wire</i> <i>#316 Lynwood -1.30 volts wire</i> <i>#312 Lynwood -1.08 volts steel</i> <i>#308 Lynwood -1.28 volts extrub</i> <i>#36 Lynwood -1.27 volts wire</i> <i>#40 Lynwood -1.27 volts</i> <i>#35 Lansing -1.25 volts wire</i>		

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192.463(a)	Is the applicable cathodic protection criteria contained in Appendix D of this part being followed?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>The operator uses this section; A negative (cathodic) voltage of at least 0.85 volt, with reference to a saturated copper-copper sulfates half cell. Determination of this voltage must be made with the protective current applied, and in accordance with sections II and IV of this appendix.</i>		
192.465(a)	Were pipe to soil readings taken?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>Staff did not inspect any isolated section of mains or services during this audit.</i>		
192.465(b)	Were rectifier installations inspected?	<b>Not Checked</b>
<b><u>General Comment:</u></b>		
<i>The parts of the distribution inspected were not rectified.</i>		
192.465(a)	Were isolated mains/services tested?	<b>Not Checked</b>
<b><u>General Comment:</u></b>		
<i>Staff did not inspect any isolated section of mains or services during this audit.</i>		
192.465(c)	Were critical/non critical bonds tested?	<b>Not Checked</b>
<b><u>General Comment:</u></b>		
<i>There were no critical/non critical bonds in the areas inspected.</i>		
192.467(a)	Is electrical isolation provided by use of insulated meter spud, valve, union, or flange?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>The operator used insulating meter spuds at the meter sets or was constructed of plastic.</i>		
192.467(c)	Were casing installations tested for electrical isolation?	<b>Not Checked</b>
<b><u>General Comment:</u></b>		
<i>Staff did not include any casings in the audit.</i>		
192.479(a)	Is the above ground piping coated or painted as required?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>The operator did find some meter locations that needed some type of corrections such a painting some of these locations were already found prior to this inspection.</i>		
192.479(c)	Is the pipeline free of corrosion or pitting?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>Some of the areas of concern were noted with the operator and are being addressed.</i>		

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MARKING OF FACILITIES		Status
<b><u>Category Comment:</u></b> <i>Line markers were checked at each regulating station and all signs were found to meet the requirements of the section below.</i>		
192.707(a)(1)	Are line markers placed and maintained as close as practical over each buried main and transmission line located at each crossing of a public road and railroad?	<b>Satisfactory</b>
192.707(a)(2)	Are line markers placed and maintained as close as practical over each buried main and transmission line located wherever necessary to identify the location of the transmission line or main to reduce the possibility of damage or interference?	<b>Satisfactory</b>
192.707(c)	Are line markers placed and maintained as close as practical over each buried main and transmission line located above ground?	<b>Satisfactory</b>
192.707(d)(1)	Do the operator's line markers contain the following information: The following must be written legibly on a background of sharply contrasting color on each line marker: The word "Warning," "Caution," or "Danger" followed by the words "Gas (or name of gas transported) Pipeline" all of which, except for markers in heavily developed urban areas, must be in letters at least 1 inch (25 millimeters) high with ¼ inch (6.4 millimeters) stroke?	<b>Satisfactory</b>
192.707(d)(2)	Do the operator's line markers contain the following information: The following must be written legibly on a background of sharply contrasting color on each line marker: The name and phone number (including area code) of the operator where the operator can be reached at all times.	<b>Satisfactory</b>
<b>ODORIZATION OF GAS</b>		<b>Status</b>
192.625(a)	Was the odor intensity level readily detectable at or below 1/5th LEL?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff conducted an odor intensity level check at the Rochester Fire Department. Threshold performed first was .11% gas in air, next was the odorant test it was .17% gas in air.</i>		
192.625(f)	Was the operator's equipment calibrated as required?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Serial number 2138-3 Heath Odorator Calibration Date 5-24-12 recalibration date 5-24-13</i>		
<b>PRESSURE LIMITING AND REGULATING STATIONS</b>		<b>Status</b>
<b><u>Category Comment:</u></b> <i>Staff inspected the following regulating stations: XS080, XS046, XS201, XS168, XS154, and XS111.</i>		
192.741	Was the chart recorder calibration verified, if applicable?	<b>Not Checked</b>
<b><u>General Comment:</u></b> <i>Staff did not inspect the chart recorders at the time of this inspection.</i>		
192.603(b)	Were the types of regulators and pressure relief devices verified?	<b>Not Checked</b>

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<b><u>General Comment:</u></b>		
Staff did not verify the types of regulators or pressure relief devices at the time of this inspection.		
192.181	Were the valves associated with regulator stations/vaults visually inspected to be readily accessible?	<b>Satisfactory</b>
192.707(c)	Is station marked properly?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
Staff verified proper signage and line markers at the station locations.		
192.615	Was the MAOP of the downstream system verified?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
Staff verified this information by asking the operator personnel in the field.		
192.739(a)	Was the most recent regulator station inspection data reviewed?	<b>Not Checked</b>
<b><u>General Comment:</u></b>		
Staff did not review station data during the field inspection.		
192.739(a)	Was the set point and lockup pressure from the most recent inspection data reviewed?	<b>Not Checked</b>
<b><u>General Comment:</u></b>		
Staff only did a visual inspection of the regulating stations.		
192.739(a)(3)	Was the set point field verified?	<b>Not Checked</b>
<b><u>General Comment:</u></b>		
Staff did not field verify the set point of the regulating stations.		
192.317(b)	Is each above ground transmission line or main protected from accidental damage by vehicular traffic or other similar causes?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
All regulating stations inspected were found to be protected from accidental damage by distance from the road and most had fences and some type barricades.		
192.199(d)	Did the pressure relief or pressure limiting devices inspected to determine if the support was made of noncombustible material?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
All supports in the regulating stations were made of steel.		
192.199(e)	Did the pressure relief or pressure limiting devices inspected to determine if the discharge stacks, vents, or outlet ports were designed to prevent accumulation of water, ice, or snow, and located where gas can be discharged into the atmosphere without undue hazard?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
Most of the regulating stations are monitor operator type and they may have token reliefs in place at some locations.		

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192.199(h)	Was each valve, designed to isolate the system under protection from its source of pressure, secured to prevent unauthorized operation of any stop valve that will make the pressure relief valve or pressure limiting device inoperative?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>All valves found under any type relief valve were all equipped with a locking device.</i>		
<b>VALVE MAINTENANCE</b>		<b>Status</b>
Determine if estimated number of customers affected by valve closure meets operator maximum allowed during an outage.		
<b><u>General Comment:</u></b> <i>This information was not determined during the audit.</i>		
192.747(a)	Were the valves inspected accessible?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Valves at the regulating stations were inspected and found to be accessible.</i>		
192.747(a)	Was the condition of the valve boxes inspected?	<b>Satisfactory</b>
192.603(b)	Are valves recorded correctly on maps and inspection forms/screens?	<b>Not Checked</b>
<b><u>General Comment:</u></b> <i>Staff did not review maps for the valve locations.</i>		

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